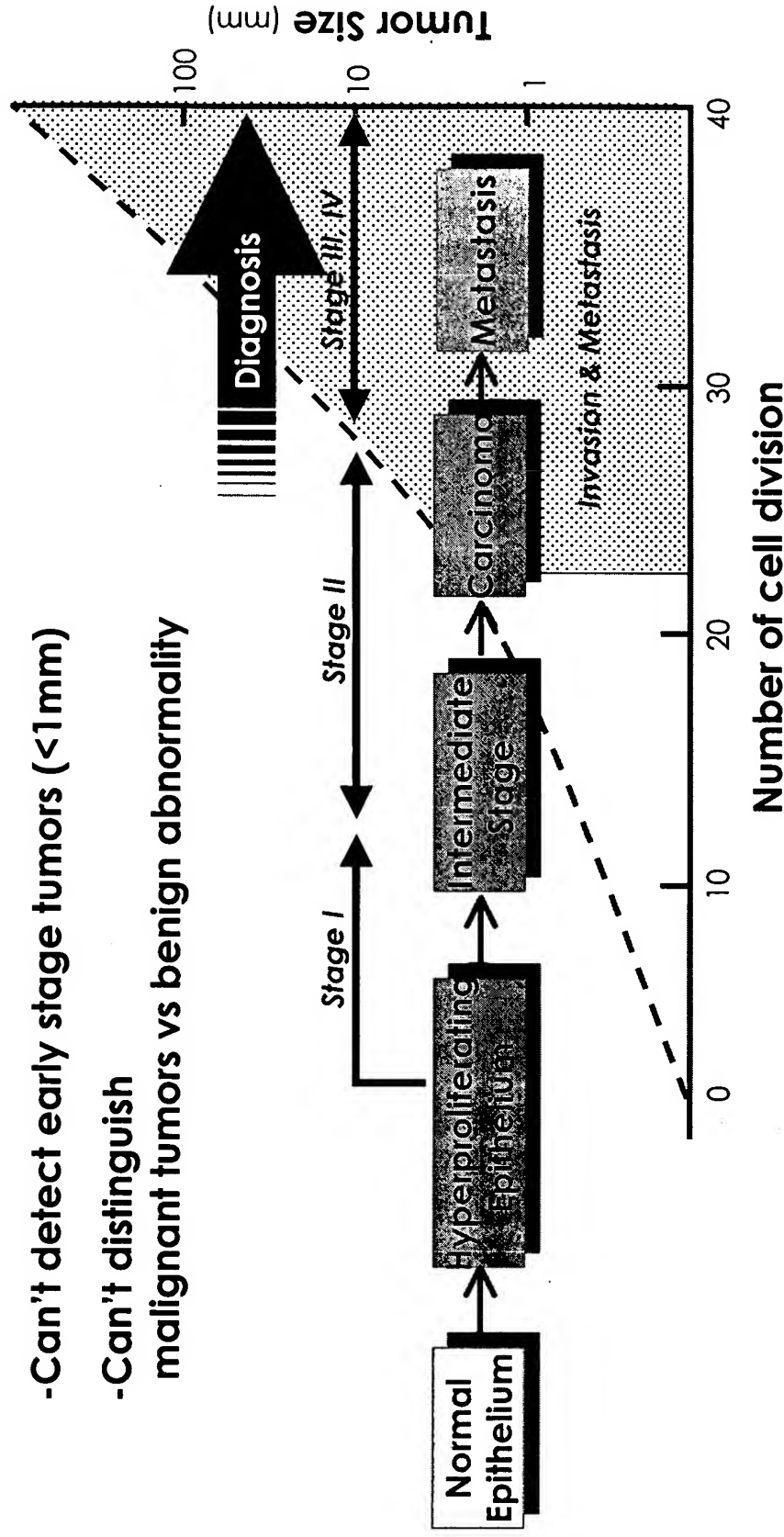


# Figure 1. Limits of Photographic Diagnosis

X-Ray, CT, PET

- Can't detect early stage tumors (<1mm)
- Can't distinguish malignant tumors vs benign abnormality
















































**Genex**



**GP**  
Genpax

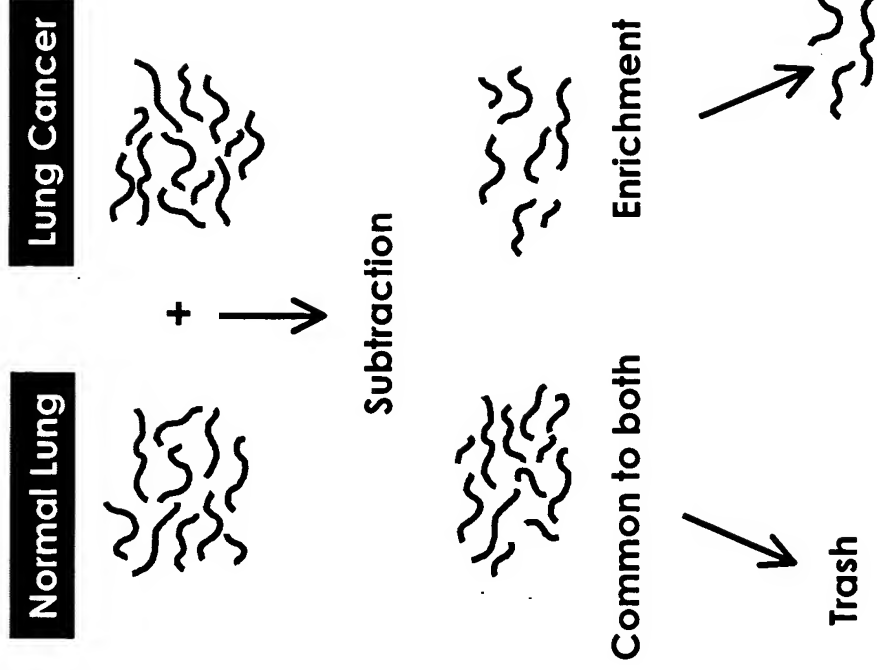
Name: \_\_\_\_\_ Date: \_\_\_\_\_

	1	2	3	4	5	6	7	8	9
A									
B									
C									
D									
E									

DNA Standard

# Figure 3. Strategic Comparison

## A. Conventional Screen



## B. Novel In Situ Screen

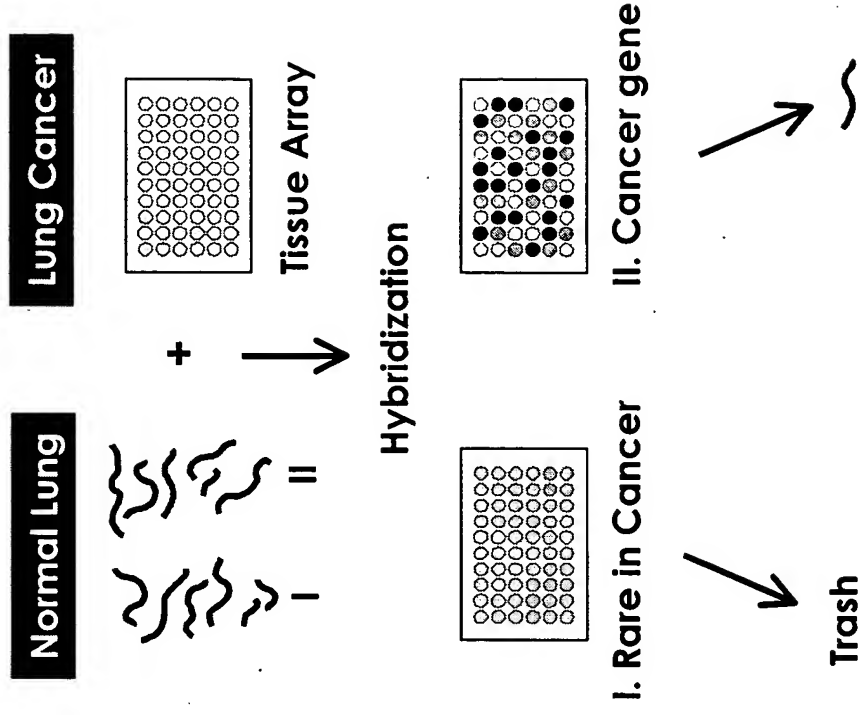
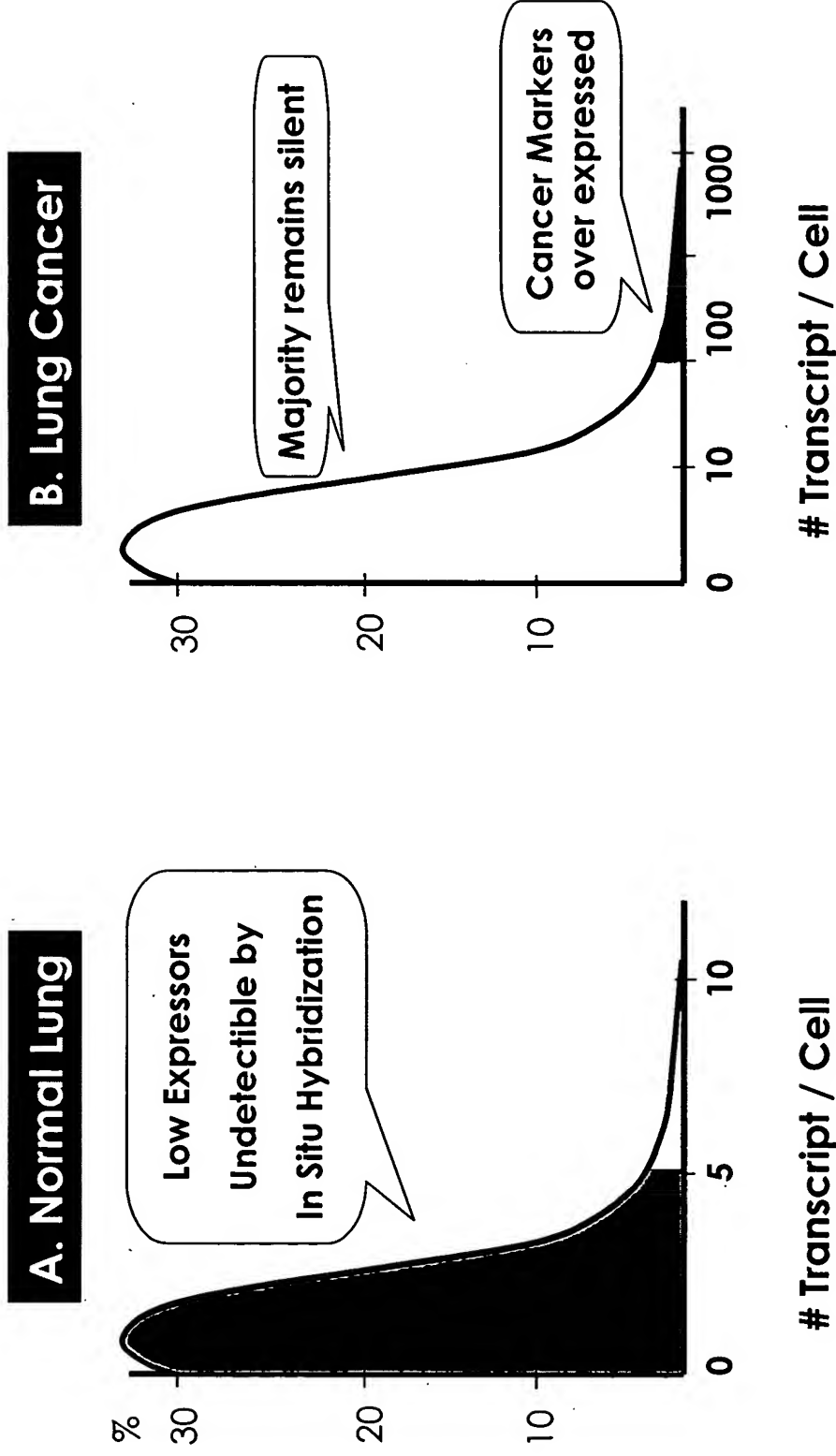
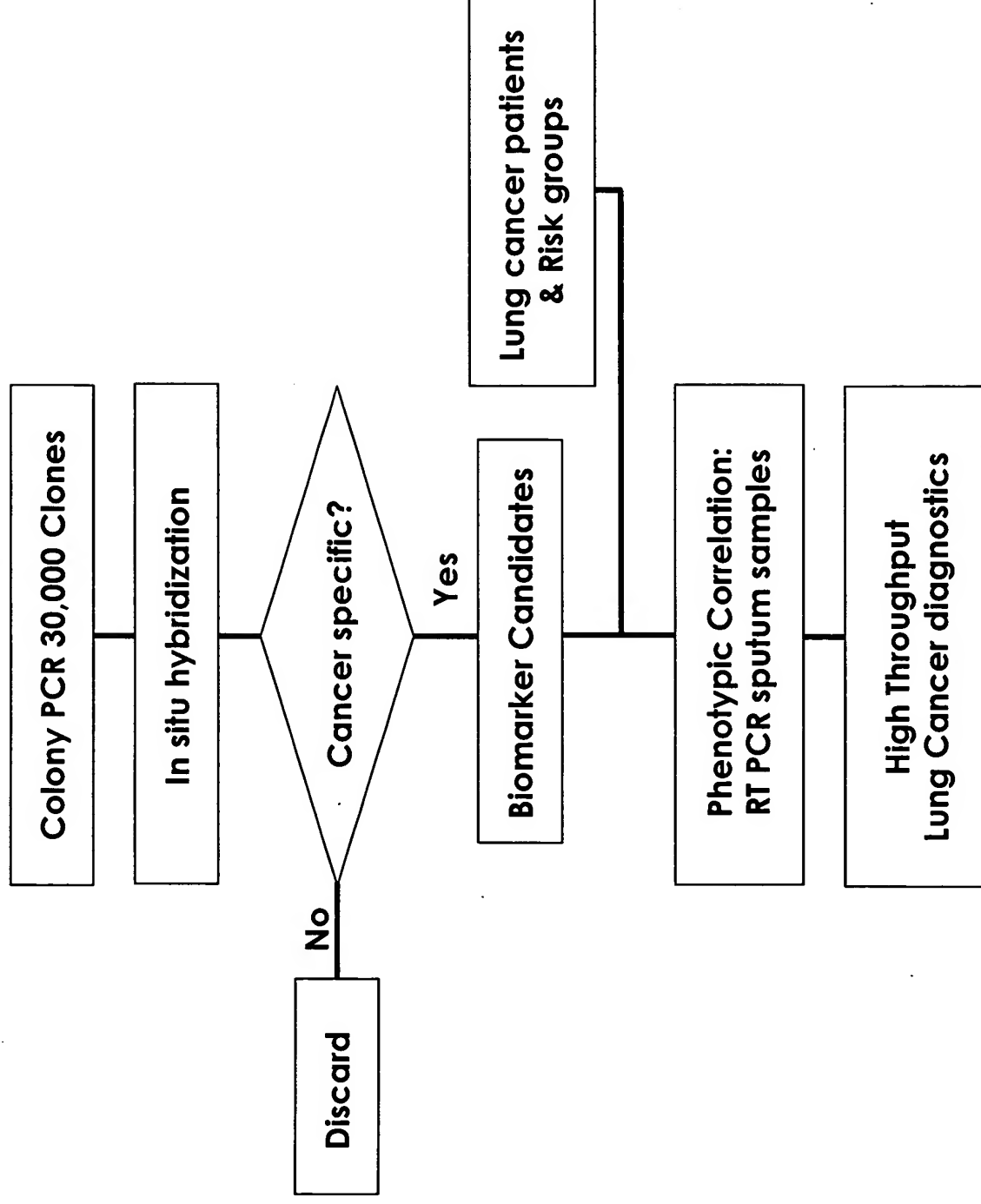


Figure 4. Target genes to be discovered



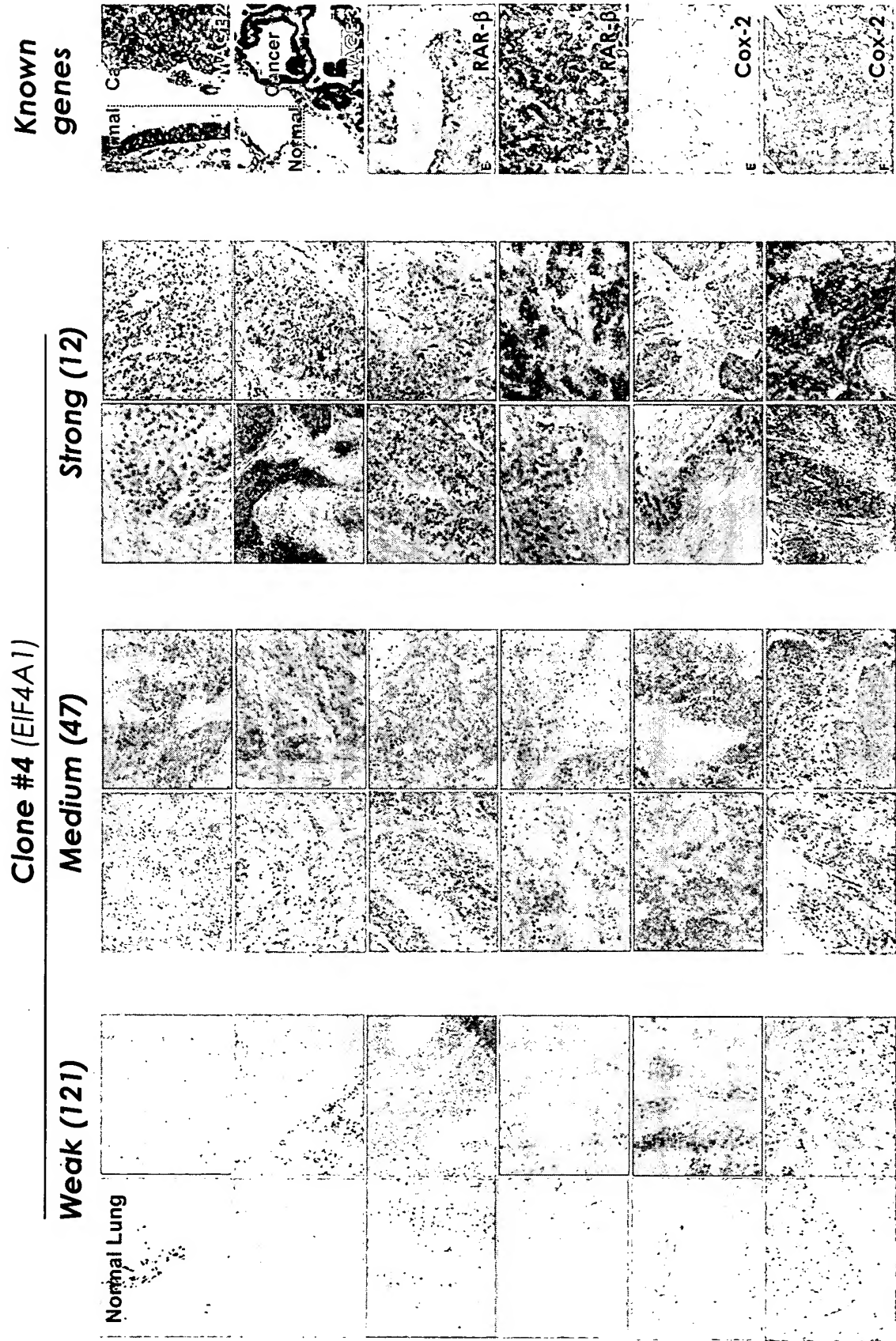
**Figure 5. Experimental Flow Chart**



# Figure 6. New Lung Cancer Markers

No.	Identity (chromosomal location)	Expression		
		Low	medium	high
1	<b>MACF1 mRNA</b>	55	0	5
2	No Homology (17)	145	27	8
3	No Homology (16)	121	47	12
4	<b>EIF4A1 mRNA (17)</b>	121	47	12
5	No Homology	57	96	27
6	No Homology(15)	42	15	2
7	<b>No Homology (6)</b>	59	104	17

**Figure 7. Expression patterns (4)**



## Figure 8. Aim of Molecular Diagnostics

Algorithm to connect genotypes to phenotypes

